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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,299	02/26/2004	Brent A. McClure	M4065.0984/P984	3439
24998	7590 04/18/2005		EXAMINER	
DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP 2101 L Street, NW			LEE, CALVIN	
	, DC 20037		ART UNIT PAPER NUMBER	
S	,		2818	
			DATE MAILED: 04/18/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	-		
	10/786,299	MCCLURE, BRENT	A.		
Office Action Summary	Examiner	Art Unit			
	Lee, Calvin	2818			
The MAILING DATE of this comm Period for Reply	unication appears on the cover she	et with the correspondence addre	ess		
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMML - Extensions of time may be available under the provisi after SIX (6) MONTHS from the mailing date of this co - If the period for reply specified above is less than thirt - If NO period for reply is specified above, the maximum - Failure to reply within the set or extended period for re Any reply received by the Office later than three mont earned patent term adjustment. See 37 CFR 1.704(b)	INICATION. ons of 37 CFR 1.136(a). In no event, however, mommunication. y (30) days, a reply within the statutory minimum in statutory period will apply and will expire SIX (6) oply will, by statute, cause the application to become after the mailing date of this communication, e	nay a reply be timely filed of thirty (30) days will be considered timely.) MONTHS from the mailing date of this comm me ABANDONED (35 U.S.C. § 133).	nunication.		
Status					
1) Responsive to communication(s)	filed on <i>04 March 2005</i> .				
2a)☐ This action is FINAL .	2b)⊠ This action is non-final.				
3) Since this application is in condition					
Disposition of Claims					
4a) Of the above claim(s) <u>22-38</u> is 5) ☑ Claim(s) <u>11-21</u> is/are allowed. 6) ☑ Claim(s) <u>1-10</u> is/are rejected. 7) ☐ Claim(s) is/are objected to	Claim(s) 1-38 is/are pending in the application. 4a) Of the above claim(s) 22-38 is/are withdrawn from consideration. Claim(s) 11-21 is/are allowed. Claim(s) 1-10 is/are rejected. Claim(s) is/are objected to.				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
·	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119	•	•			
2. Certified copies of the prior 3. Copies of the certified copies	: ity documents have been received ity documents have been received es of the priority documents have t tional Bureau (PCT Rule 17.2(a)).	in Application No been received in this National Sta	age		
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review 		riew Summary (PTO-413) r No(s)/Mail Date			
 Notice of Draftsperson's Patent Drawing Review Information Disclosure Statement(s) (PTO-144S Paper No(s)/Mail Date 6/25/04. 	, (i . 5 \$ 1.5)	e of Informal Patent Application (PTO-15	52)		

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Application No: 10/786,299

Docket: M4065.0984/P984

OFFICE ACTION

Response to Election

1. The election of claims 1-21, dated March 4, 2005, is acknowledged. Therefore, claims 22-38 are withdrawn for further consideration.

Claim Rejections - 35 U.S.C. § 102

- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 (e) that form the basis for the rejections under this section made in this Office action:
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1 and 5-10 are rejected under 35 U.S.C. 102(e) as anticipated by *Rhodes*.
- a) Rhodes (US 2005/0023553) discloses a method of forming a contact in a pixel sensor cell -depositing a passivation layer over a substrate having pixel components [¶ 0064];
- -forming a slot or hole in the passivation layer in an area over a charge collection region of said pixel sensor cell;
- -implanting a dopant at an angle relative to sidewalls of the slot through said slot into the charge collection region 326, wherein the dopant is implanted into the substrate at an energy of about 1KeV to 100 KeV [¶ 0061] at an angle of about 0 to 30° [¶ 0059] relative to the sidewalls; -and forming a contact 32 within the slot [Figs. 15-16 and ¶ 0071].
- b) In re claim 9, *Rhodes* indirectly suggests the dopant 188 being implanted at an implant depth of about 10 to 3000Å, which is the thickness of the insulating layer 121 [Fig. 9 and ¶ 0046].

Claim Rejections - 35 U.S.C. § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office Action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 5. Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Rhodes*.
- a) In re claims 2 and 3, *Rhodes* suggests the slot having a circle shape [Figs. 14-15] but not an oblong (or elliptical) shape.

It would have been an obvious matter of design choice to have the claimed slot shape, since such a modification would have involved a mere change in the size of a hole or slot. A change in size is generally recognized as being within the level of ordinary skill in the art.

b) In re claim 4, *Rhodes* discloses a slot or hole in a passivation layer [¶ 0064] but is silent about an aspect ratio having a range of about 10:1 to 5:1.

It would have been an obvious matter of design choice to have the claimed aspect ratio, since such a modification would have involved a mere change in the size of a hole or slot. A change in size is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955).

Allowable Subject Matter

6. Claims 11-21 are allowed because the reference Rhode does not teaches forming a blocking layer extending over a portion of a charge collection region of a pixel sensor cell.

Contact Information

7. Any inquiry concerning this communication from the Examiner should be directed to Calvin Lee at (571) 272-1896 on Mondays thru Thursdays 6:30-4:30PM. If attempts to reach the examiner by telephone are unsuccessful, Art Unit 2818's Supervisory Patent Examiner David Nelms can be reached at (571) 272-1787. The fax phone number for the organization (where this application is assigned to) is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system at http://pair-direct.uspto.gov. Should you have questions on access to the PAIR system, contact the Electronic Business Center at (866) 217-9197.

CL

April 8, 2005

D2vid NeimsSupervisory Patent Examiner
Technology Center 2809